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File: USPT

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TITLE: Implements comprising highly durable foam materials derived from high internal phase emulsions

Detailed Description Text (83):

A preferred optional component is an antioxidant such as a Hindered Amine Light Stabilizer (HALS) such as bis-(1,2,2,5,5-pentamethylpiperidiny) sebacate (Tinuvin-765.RTM.) or a Hindered Phenolic Stabilizer (HPS) such as Irganox-1076.RTM. and t-butylhydroxy-quinone. Radical scavengers such as didodecyl 3,3'-thiodipropionate may be included in the oil phase. Another optional component is a plasticizer such as dioctyl azelate, dioctyl sebacate, dioctyl adipate, or dioctyl phthalate, also including the dinonyl and didécyl and other homologs of these plasticizers. Yet another optional ingredient is filler particles which may toughen the polymer and/or increase its thermal insulating properties and/or increase the absorption of microwave radiation so as to cause the foam to heat up in a microwave oven for cooking and browning of foods. Example filler particles include aluminum, titanium dioxide, carbon black, graphite, calcium carbonate, talc, and the like. Other optional components include colorants (dyes or pigments), fluorescent agents, opacifying agents, chain transfer agents, vitamins, food flavorings or spices, edible oils, pharmacologically active agents, cleaning agents, shining agents, polishing agents, waxes, and the like.